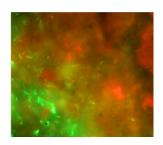


The DOE Joint Genome Institute

Microbial Genomics and Metagenomics Workshops

May 9-13, 2011 | September 26-30, 2011



The Microbial Genomics and Metagenomics (MGM) five-day workshop (www.jgi.doe.gov/meetings/mgm/) provides strong and solid training in microbial genomic and metagenomic analysis and demonstrates how the cutting-edge science and technology of DOE JGI can enhance the participants' research.

REGISTER FOR THE MAY MGM WORKSHOP AT http://bit.ly/gOYyV1
REGISTER FOR THE SEPTEMBER MGM WORKSHOP AT http://bit.ly/gFa2la

Sample Agenda:

MONDAY

Welcome and Overview of the Workshop
Introduction to the JGI New Sequencing Technologies
Microbial Genome Assembly & Finishing
Single Cell Genomics
Eukaryotic Genome Annotation
Microbial Genomics
Archaeal Genomics
Phylogenomics
Introduction to Metagenomics
Metagenomics of Hypersaline mats
IMG Systems and Design Walkthrough

TUESDAY

Basic Bioinformatics Tools
Data Sources
Sequence Space Gene Clustering
Finding the Genes in Microbial Genomes
Gene Models Quality Control (Gene QC)
Annotation: Function Prediction and Metabolic
Reconstruction IMG Functions and Pathways
Introduction to IMG
IMG-GOLD
IMG-ER Data Submission — Hands on Tutorials

Poster Session and Reception



WEDNESDAY

IMG Tutorial (Genome Annotation and Analysis)
IMG — Genes and Genomes
Hands-on IMG (Exercises)
Exercise Solutions
IMG — Functions and Pathways
MyIMG
Gene Context Analysis in IMG
Hands-on IMG (Exercises)
Exercise Solutions

THURSDAY

IMG/M
Introduction to Metagenome Analysis
Statistical Analysis of Metagenomic Datasets
Hands-on IMG (Exercises)
Exercise Solutions
A Genome Analysis Test Case
A Metagenome Analysis Test Case
General Discussion & User's Feedback

IMG/M Tutorial (Metagenome Analysis)

FRIDAY

CAMERA Tutorial (Cyberinfrastructure for Advanced Marine Microbial Ecology Research and Analysis)
Greengenes and PhyloChip tutorial
MycoCosm/Fungal Portal Tutorial
VISTA
End of Workshop

The U.S. Department of Energy (DOE) Joint Genome Institute (JGI), supported by the DOE Office of Science, advances genomics in support of the DOE missions related to bioenergy, carbon cycling, and biogeochemistry. DOE JGI, located in Walnut Creek, California, provides integrated high throughput sequencing and computational analysis which enable systems-based scientific approaches to these challenges. http://www.jgi.doe.gov/